

DENVER PC BOARDWATCH

NEWSLETTER FOR DENVER AREA TELECOMPUTING AND TELECOMMUNICATIONS

Editor: Jack Rickard Volume I: Issue 8 ISSN: 0894-5209 October 1987

PC MAGAZINE INTERACTIVE READER SERVICE:

PC owners have come to look on PC MAGAZINE as the final word on product reviews for PC compatible computers. Additionally, the magazine traditionally provides some very usable disk utilities in each issue. These utilities commonly appear on local electronic bulletin board systems (BBS) for download. PC Magazine initiated its own **Interactive Reader Service (IRS) BBS** last year at (212)696-0360. The New York City based BBS allowed readers to download utilities listed in the magazine. This proved so popular that it's since grown to a 24-line system running under a multiline BBS software program titled Chairman. On September 1, PC Magazine launched a West Coast BBS offering the same services. The new BBS will start life as a 16-line system at (415)598-9100. Both services support 300/1200/2400 bit-per-second (bps) operation using the familiar 8 data bits, no parity, 1 stop bit (8N1) communication parameters. The new western lines should lower connect costs for Denver readers considerably.

ASSOCIATION OF SHAREWARE PROFESSIONALS:

Jim Button, of **PC-FILE** fame and Bob Wallace, author of the popular **PC-WRITE** word processor, serve as co-chairmen of a new group formed to help shareware developers market their products. These gentlemen should be quite capable in that capacity since both products produce revenues in excess of a million dollars annually as shareware distributed software. Under the shareware concept, software is freely copied and "shared" from user to user via User Groups and electronic BBS. Those who find the software useful are encouraged to "register" their copies with the authors for a modest fee, usually less than \$100. This results in on-line technical support, typeset documentation, and upgrade notices. Association of Shareware Professionals, 11058 Main St., Suite 225, Bellevue, WA 98006.

IBM DICTIONARY

IBM is widely recognized as the authoritative word on computer industry standards. Now they've written the book on it. The **DICTIONARY OF COMPUTING** is in its seventh edition and contains 483 marvelously thorough pages of definitions and descriptions of terms currently in fashion in the industry. We consider this a "must have" reference for consultants, program-

mers, and serious hobbyists. The book is \$8.70 available from IBM sales offices. Specify publication **SC20-1699-7**.

CELLULAR MODEMS

Spectrum Cellular of Dallas is leading the way toward mobile data communications. The company offers a pair of modems termed the **BRIDGE** and the **SPAN** featuring a proprietary error correction protocol. The **BRIDGE** allows connection of a portable PC to any car cellular telephone. The **SPAN** is required at the stationary end. For Realtors and field engineers this would appear to be an ideal solution to accessing data from remote locations. The system also allows communication from one mobile unit to another. The company also offers a combination laptop computer, cellular telephone, and the **BRIDGE** modem in a ruggedized suitcase called **HAZCOM ONE**. This entirely portable unit is targeted at Hazardous Materials Handling teams who often need to access databases containing information on thousands of hazardous materials from incident sites. Spectrum is also developing an internal version of the **BRIDGE** for laptops. Spectrum Cellular Corporation, 2710 Stemmons Towers North, 8th Floor, Dallas, TX 75207; (800)233-2119

NEW MACINTOSH RED RYDER RELEASE:

The Freesoft Company, distributors of the popular Macintosh communications program **Red Ryder**, has completed a move from St. Louis Missouri to Beaver Falls Pennsylvania. They've also announced release of version 10.0 of the Red Ryder package at a price of \$80. Upgrades from previously registered versions are \$20. This package is fast becoming one of the most popular MAC communication packages and the price is right - though a bit shy of free. The Freesoft Company, 150 Hickory Dr., Beaver Falls, PA 15010; (412)846-2700

NEW GT POWERCOMM RELEASE EXPECTED:

P&M Software of Houston TX is now taking orders for an October 1 release of their popular **GT POWERCOMM** communications package for the IBM PC. The new version 13.00 is rumored to include a new national netmail system for the growing number of BBS around the country using the **GT POWERCOMM** host mode as a BBS. The host mode currently supports multiple message and file areas and is easy to use. The **GT POWERCOMM** program is noted for its 999

entry dialing directory and call logging capabilities. The program is distributed via shareware with a suggested donation of \$50. Existing registered users can upgrade for \$10. We're hoping version 13.00 also supports the popular ZModem file transfer protocol as an integral part of the program. P&M Software, 9530 Country Creek, Houston, TX 77036; (713)772-2090 (data).

BORLAND RELEASES TURBO PASCAL 4.0:

Borland International Inc. released version 4.0 of its popular **Turbo Pascal** compiler. The new version is purported to be much more compatible with the UCSD Pascal standard popular in the corporate world. The announcement celebrates the product's fourth anniversary. The new version eliminates the 64K program size constraint and quickens compilation speed to a brisk 25,000 lines per minute on an 8 MHz AT class computer. The new release is scheduled to ship in October at \$99. Registered users can upgrade for \$44.95. Borland International Inc. 4585 Scotts Valley Drive, Scotts Valley, CA 95066; (408)438-8400.

PC WEATHER STATION:

Technology Marketing Inc. has introduced **PC Weather Pro**, a product to gather, store, and analyze weather data. The system consists of a plug-in card for IBM PC/XT/AT compatibles and software along with an array of weather sensors such as solid state barometer, electronic rain collector, anemometer, wind vane, and two temperature monitors as well as some necessary cabling. The system retails for \$375 basic or \$575 with electronic rain collector option. It allows you to log weather data into a database including wind speed and direction, inside and outside temperatures, barometric pressure, wind chill factor, and rainfall. Several local TV stations already have "observers" in the area who read rainfall and temperature devices manually and telephone in the particulars. Some enterprising BBS sysops could garner support from these TV stations to add such equipment in return for real-time weather data remote services. Stations could then "poll" area weather-equipped BBS automatically using their own microcomputers whenever developing weather made such info useful. Technology Marketing Inc., 4000 Kruse Way Place, Bldg. 2, Suite 120, Lake Oswego, OR 97035; (800)247-5712.

MAC DBASE:

Ashton Tate has begun shipping the Macintosh version of its popular dBase relational database program. The new **Dbase Mac** product retails for \$495. It's compatible with Mac II, Mac SE, and Mac Plus. (303)799-4900.

BORLAND TO INTRODUCE SPREADSHEET:

Borland International Inc. seems to be everywhere at once in the software market. Now they plan to intro-

duce a spreadsheet program for the IBM PC known as **Quattro: The Professional Spreadsheet**. The new product features Lotus 123 file compatibility with better graphics capability, faster operation, and customizable interface. The product is scheduled for release during the fourth quarter. Borland International Inc. 4585 Scotts Valley Drive, Scotts Valley, CA 95066. Telephone (408)438-8400.

MICROSOFT BBS:

Microsoft Corporation has announced a new on-line subscription support service for software developers and original equipment manufacturers (OEM) titled **Dial 2.0**. The new service can be accessed through telenet and is priced at \$450 annually. Microsoft is also currently shipping version 4.0 of its popular **Microsoft Word** word processing program. Microsoft Corporation, 16011 NE 36 Way, Box 97017, Redmond, WA 98073; (206)882-8080.

TURBO PASCAL MATH ROUTINES:

Acro Technology has released version 2.0 of the Acrotech Math Library. The product provides over 300 math routines for Turbo Pascal programmers. Priced at \$39.95, the package includes functions for unit conversion, trigonometric functions, statistics, physics, coordinate system transforms, and matrices. Acro Technology, 1111 W. El Camino Real, #331, Sunnyvale, CA 94086; (408)737-1721.

COMPLUS 1200i MODEM:

Osmos Inc. is offering a half card 300/1200 bps modem bundled with the Bitcom communications program for \$79.99 plus \$3.99 shipping and handling, an attractive \$83.98 total. The card recognizes the Hayes AT command set and carries a 2 year warranty. Osmos, 1887 O'toole Ave. Suite C104, San Jose, CA 95131 (800)672-3470.

MICROCOM AX/9600 PLUS MODEM:

Microcom Inc. introduced improved versions of its 9600 bit-per-second (bps) modems. The **AX/9600 Plus** is an external modem retailing for \$999. The company claims transfer speeds in excess of 11,000 bps due to use of the Microcom Networking Protocol (MNP) which compresses data and performs error correction. Like all current 9600 bps units, the Microcom only communicates with other modems of the same type at 9600 bps. When connected to other brands, the Microcom falls back to 2400, 1200, or 300 bps operation where standards are well established. Microcom Inc., 1400 Providence Highway, Norwood, MA 02062; (617)762-9310.

QUADRAM POSTSCRIPT LASER PRINTER:

Quadram introduces a new laser printer with Postscript capabilities. The Postscript page description language is quickly becoming the standard all laser printers and desktop publishing programs will

support. The new printer will retail for \$3995 and current owners of Quadram Laser printers can upgrade via an \$1895 kit. Quadram, 4355 International Blvd., Norcross, GA 30093; (404)923-6666.

WORD PERFECT BLITZ

Word Perfect Corporation is releasing several new versions of their popular word processing product. For PC users, **version 5.0** is slated for a first quarter 1988 introduction. The new release incorporates a number of desktop publishing features including the ability to import/resize graphics images from other programs and adjust text to flow around the image. A preview mode allows a view of the finished version while stopping short of a true WYSIWYG display. Significantly, the new version fully supports **Adobe Systems Postscript** document description language - fast becoming the standard software interface among desktop publishing programs, laser printers, and typesetters. Additionally, the company has recently released a version of Word Perfect for the Commodore Amiga computer and plans a November 1987 release of Word Perfect for the Apple Macintosh. A Unix version will be available in early 1988. The program is already somewhat unique in that it's one of the few word processors for personal computers also widely available on mainframe computers. Apparently they intend a version for every machine available - we've heard rumors of a version for the Hewlett Packard HP-41 calculator as well as a reduced function version for the Lady Kenmore Upright Vacuum Word Perfect Corporation, 288 West Center St., Orem, UT 84057; (801)225-5000.

MULTIUSER BBS

Galacticomm is now offering a full off-the-shelf multi-user BBS system. The heart of the product is single-slot card containing **16 Independent modems**. Up to four of these cards can operate together to service up to 64 individual telephone lines. A demo board is provided at (305)922-3901. Galacticomm Inc., 11360 Tara Drive, Plantation, FL 33325; (305)472-9560 (voice).

ROAD CONDITIONS

As we head into the winter season, road conditions will play a big part in our travel plans. The Colorado State Patrol and Department of Highways maintains a road conditions advisory service at (303)639-1111. The service provides a taped voice update of conditions within a two hour drive of Denver. Locally, **Colorado TravelBank BBS** at (303)671-7669 provides road conditions updated four times daily. Other road condition numbers for specific areas around the state include:

| | |
|---------------|------------------|
| (303)245-8800 | Grand Junction |
| (303)247-3355 | Durango |
| (303)249-9363 | Montrose |
| (303)275-1637 | Canon City |
| (303)328-6345 | Eagle |
| (303)336-4326 | Lamar |
| (303)356-7420 | Greeley |
| (303)482-2222 | Fort Collins |
| (303)522-4848 | Sterling |
| (303)539-6688 | Salida |
| (303)545-8520 | Pueblo |
| (303)565-4511 | Cortez |
| (303)589-9024 | Alamosa |
| (303)635-7623 | Colorado Springs |
| (303)639-1234 | Statewide |
| (303)641-2896 | Gunnison |
| (303)775-2000 | Limon |
| (303)824-4765 | Craig |
| (303)867-2021 | Fort Morgan |

LOCAL ACCESS

RABBIT BBS:

The Colorado Department of Highways operates an excellent BBS titled (with the usual governmental propensity for the verbose) Research Activities Bulletin Board in Transportation - mercifully abbreviated **RABBIT BBS** at (303)757-9509. Sysop is **Ed Bullard** and the board runs on an NCR PC-6 computer with a Hayes 1200 modem with The Bread Board System (TBBS) bulletin board software. The BBS carries some fascinating extracts of newsletters dealing with road and bridge maintenance. They also sport an extremely detailed on-line listing of every road in the Denver area with lanes currently closed for maintenance. If you want to know if your favorite route that has been clogged up with maintenance crews during rush hour is finally open, here's the place to find out. The board is primarily directed at CDH employees but appears to be open to the public. We learned that the US Justice Dept has OK'd a universal gasoline credit card. And since July 1, 30 states have raised rural highway speed limits to 65 mph. Cars with the new rear window brake lights are 22% less likely to be struck from the rear. A final item that caught our ever wandering eye was the famed **7th Annual Western Snow and Ice/Fleet Management Conference** to be held October 13-15 in Fort Collins. Wouldn't miss this one for the world. See you there Ed.

INVESTMENT LOUNGE: Mark Greve brings us a relatively recent addition with **THE INVESTMENT LOUNGE** at (303)759-3721. True to title, the board deals with investment strategies and displays some detailed text files prognosticating on future trends in

the stock market, as well as bonds, precious metals, real estate, foreign investments, etc. Extracts from various newsletters give the board flavor. If you could add stock price listings available 2 hours in advance of market, we think you would really have something there Mark.

THE 8TH SEA:

Rod Lamping provides an excellent example of the new Opus BBS software in action with his local board **THE 8TH SEA** at (303)252-9235. The board is node 610 of the local Fidonet. More importantly, Mr. Lamping has developed a significant knack for loading his BBS with the very latest releases of almost any shareware/public domain software programs you might need. We rate it as one of the very best maintained local libraries of such software available. In addition to keeping this treasure trove extremely current with the latest releases, Mr. Lamping provides brief but extremely descriptive and informative file descriptions appearing on screen as you list the files for any particular area. Additionally, screen designs are laudably attractive. We recall this BBS previously was titled **DIVE LINK** and catered to scuba enthusiasts. The board seems to have come up for air and now features some unique message traffic concerning pagans, witches, and something termed **WICCAN** having to do with such spiritual matters. Odd though it may be, the message traffic is at least lively. The board does suffer from an ailment common to several of the better area boards - chronic busy signalitis. Highly recommended.

LONG DISTANCE

DATABASE OF DATABASE:

In just the past few years the concept of on-line access to vast database files of specialized information has really come into its own. Simply locating and learning how to use a database catering to your specific profession can enhance your status and value to your employer many times over. Over 800 databases are apparently operating for profit and available to the public at large. But, rather than making information research easier, it's again become more difficult simply because of the number of databases available. Now - the ultimate. Database database(s?). Infoworld Magazine has introduced the **SEARCHLINK** service that ostensibly allows you instant access to more than 800 database without subscribing to anything. Enter your search criteria and the service selects the appropriate database and phrases the search query appropriate to the system. Simply dial up **SEARCHLINK** at (800)843-7337. Searches cost \$7.99 plus \$0.25 per minute connect time. Searchlink, Box 9171, Framingham, MA 01701; (617)879-0700 (voice).

Western Union provides a very similar front end type service for some 700 odd database via their **IN-**

FOMASTER service. Call voice at (800)247-1373. They advertise a free 30 minute cruise on their service for a limited time.

GENIE SERVICE:

As commercial on-line services go, General Electric's **GENIE** service is relatively inexpensive and easy to operate. The service charges a one-time signup fee of \$18 plus \$5 per hour connect fee at 300 or 1200 baud with a \$10 per hour charge for 2400 bps service. The service has grown increasingly popular because the pricing structure is lower than MCI Mail, Compuserve, and The Source and there are no monthly minimum charges. You only pay for actual connect time. Data transfers to long distance cities are actually easier and cheaper to perform by simply having one end upload to GENIE and the other end download at their leisure. To sign up, dial (800)638-8369. On connect you will be faced with a U # prompt. Enter **XJM11878,GENIE**. A registration process as long and tortuous as any in existence will cool your urge to subscribe but once endured, the service provides good value and at the current rate of growth, everyone on earth will have subscribed by late 1988. Local numbers are listed below. Note several outstate areas pay a \$2 communications surcharge.

| CITY | TELEPHONE | FEE |
|-------------------------|-----------------|------|
| Fort Collins | 224-4159 | \$2 |
| Grand Junction | 245-3331 | \$2 |
| Montrose | 249-0582 | \$2 |
| Greeley | 351-6148 | |
| Pueblo | 543-2289 | \$2 |
| Colorado Springs | 574-9090 | |
| Loveland | 663-0907 | \$2 |
| Denver | 698-0084 | |
| Denver (2400 bps) | 698-1086 | \$10 |

FLATE RATE SERVICE UPDATE

One long distance service very popular with BBS enthusiasts is Telenet's **PC PURSUIT** service. For a \$25 registration fee and a flat \$25 per month, users can make unlimited long distance telephone calls between 25 major US cities during evening and weekend hours. Telenet maintains informational BBS at (800)835-3001 and (703)689-3561. You can register by dialing (800)TELENET voice. All charges must be made to a credit card. The availability of such services is threatened by current FCC plans to drop access charge exemptions enjoyed by these carriers as of January 1988. Now **Tymnet** has decided to get in on the action right before the final bell. They are starting a service titled **OUTDIAL** featuring a \$50 per month fee. We called for information and they promised to send us info on the service. We received

a 10-pound satchel full of Tymnet information with nothing on OUTDIAL. We also read Tymnet is offering 9600 bps service at the same connect-time rate as 2400 bps. Bravo! But read the fine print. All 9600 bps connections must conform to the CCITT (Consultative Committee International Telphonique et Telegraphique) V.32 standard for 9600 bps modems. If you use a Hayes, US Robotics HST, or Telebit Trailblazer 9600 bps modem, none of these support V.32. In fact, no popular priced modem supports V.32 because the technology required has proven too expensive to implement.

COMMUNICATIONS SOFTWARE

To access electronics bulletin board systems requires communications software to operate the modem. Fortunately, this software is available at very attractive prices through shareware. The table below lists some of the most popular communications packages for the IBM PC. We feel these programs are not only affordable but superior in design, ease of use, and support, to anything available in the world of commercial software. The latest versions are always available from the support BBS listed in the table. Alternatively, we would be happy to send you a copy of your choice of these programs along with the latest **Denver PC Boardwatch** verified local list pre-loaded into the dialing directory for a modest copy fee of \$7. Specify program desired and use the address or phone listed on the back cover to order. Note that these programs all ask for shareware registration fees of \$30 to \$50.

TELEVIDEO BBS

A number of companies have marketed "clone" machines compatible with IBM's product. Yet many insist on putting their own stamp on the product to make it unique. Tandy markets computers with unique card slot sizes. NEC, Televideo, DEC, and Honeywell

have all introduced clones that don't clone in all respects. Some machines offer unique and interesting features. Yet it can lead to problems for the "lone" user in the area. A few firms have introduced support BBS. In our July issue we reported an **NEC SUPPORT BBS** at (800)632-7227. Now the National Tele-Video Users Group has started a similar service for Televideo owners at (415)753-3018. The group claims over 750 members. Care of ACCUTRONICS, PO Box 22007, San Francisco, CA 94122.

ZMODEM BBS

Recently there has been quite a stir among IBM PC enthusiasts concerning a relatively new file transfer protocol titled **ZMODEM**. Chuck Forsberg, author of the **YMODEM** protocol, wrote this program for **TELENET** specifically to overcome some delay difficulties encountered when transferring files over **PC PURSUIT** long distance service. Many local boards have adopted a BBS software program titled **OPUS** that supports the **ZMODEM** protocol delivering very impressive file transfer times. Data rates of 115 characters per second (cps) at 1200 bps are quite common locally using this combination. **ZMODEM** is widely available under the file name **DSZXXX** where **XXX** indicates the date of release. **DSZ722.ARC** would indicate an archived file containing the **ZMODEM** protocol release made July 22, 1987. Oddly, there have been at least 8 to 10 releases of this program in the last 3 or 4 months. Mr. Forsberg runs a BBS titled **TELEGODZILLA** where you can download the latest version at (503)621-3746.

NATIONAL STATISTICS

Last issue we noted Meade Frierson's efforts at tracking IBM BBS on a nationwide scale. In response, Mr. Frierson provided us with some updated figures on 3041 no-fee IBM boards.

COMMUNICATIONS SOFTWARE

| TITLE/VERSION | RELEASED | AUTHOR | ADDRESS | SUPPORT BBS |
|-------------------|----------|------------------------------|---|---------------|
| GTPowercomm 13.00 | 10-1-87 | P&M Software /Paul Meines | 9350 Country Creek Houston, TX 77036 | (713)772-2090 |
| ProComm 2.4.2 | 10-17-86 | Datastorm Technologies | P.O. Box 1471 Columbia, MO 65205 | (314)474-8477 |
| QModem SST 3.0 | 4-18-87 | Forbin Project | 4945 Colfax Ave. S. Minneapolis, MN 55409 | (612)824-8167 |
| Telix 2.12 | 2-24-87 | PTel/Colin Sampaleanu | 276 Guildwood Parkway Toronto, Ont M1E-1P9 | (416)662-8254 |
| Boyan D3 | 7-26-87 | Justin Boyan | 9458 Two Hills Ct. Columbia, MD 21045 | (301)495-7323 |

| BBS SOFTWARE | QTY | SHARE |
|--------------------|------------|--------|
| FIDO/OPUS | 1149 | 37.78% |
| PC-BOARD | 601 | 19.76% |
| RBBS | 542 | 17.82% |
| TBBS/TCOM | 282 | 9.27% |
| COLLIE | 88 | 2.90% |
| WILDCAT | 62 | 2.04% |
| GTPOWERCOMM | 41 | 1.35% |
| ALL OTHER | 276 | 9.07% |

Roughly 60% of these BBS support 2400 bps operation and approximately 174 support 9600 bps. Over 40% of these BBS can be reached via PC PURSUIT. Mr. Frierson's national list is available from Mike Yaklin's **INFORMATION BOOTH BBS** operating out of Wichita Kansas at (316)684-8744. The October list file would appear as **IBMB1087.ARC**. Mr. Frierson can be reached at Compuserve 73137,416.

SHAREWARE

FINDUPE VERSION 3.04:

Karson W. Morrison. **FINDUPE** version 3.04 is a small utility program neither sophisticated in style nor all encompassing in scope. It simply lists all occurrences of duplicate files on your disk drives. It is a shareware utility found in the file **FINDUP34.ARC**.

To first-time hard disk users, the 20 or 30 MB of disk real estate seems "unlimited". Subdirectories are erected helter-skelter and files are copied between and among them with reckless abandon. Eventually, the limits of hard disk storage are reached. The closet is full and there are only two options: get another/bigger closet, or clean out the one we have.

New disks are expensive - perhaps more than a new closet. Examining our current disk arrangement will usually reveal that a number of data and program files that seemed almost terrifying in their importance six months ago have matured right through the ordinary category and into the "what is this doing here?" classification. Often we can regain several megabytes of space by sending files we no longer need to RAM heaven via the delete command.

Another way to recapture some disk acreage is by simply eliminating duplicate files. We often copy a file from one directory to another with the intention of going back and deleting the original "later". Too often, "later" becomes "later still".

Findupe simply prints out to screen, printer, or disk file, all instances where a single file exists in more than one directory on a disk drive or series of disk drives. The program must be unarchived using **ARC 5.21** or **PKXARC** utilities to produce the **FIN-DUP34.COM** and **FINDUP34.DOC** files. The Documentation file gives some brief operating instruc-

tions, development history, and registration instructions under the usual "shareware" conditions. The authors ask a \$10 contribution. To start the program, simply enter **FINDUP34** and press **ENTER**. The program confirms the selected drive or drives, and whether they are hard drives or floppies via a simple on screen panel. It then presents a simple menu to allow selection of output to printer, screen, or disk file. When I first started **FINDUPE** up, I thought it would find a few duplicates; we're all human aren't we? Actually, the program scrolled a shocking series of file names across the screen complete with drive/sub-directory locations for each file. Files I hadn't used at all in the last six months appeared in five or six different places on the disk. Files I couldn't remember ever using somehow rated two or three appearances. I printed out the list created by **FINDUPE** and used it to as a map to make deletions from the hard disk. While few of the files were singly large enough to take up much space, together all the duplications cost 2.5 MB of disk space. While **FINDUPE** won't floor you with its finesse, it can help you manage your disk property. Karson W. Morrison, Caleb Computing Center, RD1, Box 531, Ringoes, NJ 08551; (201)788-1846.

INSTANT VERSION 1.64:

Michael Fremont. **INSTANT** is a fascinating attempt at a much needed pop-up utility. Ostensibly, the program allows you to compose random notes at any time in no particular format and save them to disk. To retrieve them later, you simply enter a keyword that might be found in the note (a date, a name, a specific word) and the note pops up into view. You can import data from other products into the note and export data from **INSTANT** notes to your word processor or other application. This freeform text database packaged in a Terminate and Stay Resident (TSR) pop-up format is a fantastic idea and one we applaud. The search routine operates very quickly and very accurately. Unfortunately, **INSTANT** falls a bit short as a complete package.

To activate Instant, press **ALT-Z** and it immediately pops into view. From there on the user interface is pretty much downhill. The program presents a list of commands across the top of the screen much like Lotus 123. Unfortunately you cannot select these items from the menu using any known method. After reading the documentation through twice we did figure out that you "selected" these items by pressing the first letter of the desired command while holding down the **CTRL** key. Of course we should have known that all along, but it still would have been nice if there were some indication on screen.

The documentation is for the most part chatty, childish, and condescending. They make numerous references to some truly wonderful documentation you will receive for your \$69 registration fee. They

also point out that the version of **INSTANT** you have is limited to a single 80 Kbyte database. Once registered, you will receive the "real" version allowing up to a 2 MB database. Since the database is held on disk anyway rather than in memory, we don't understand why the limit would be less than 32 MB in any case. Restricting the unregistered version to 80 Kbytes is a cheap and shoddy trick. We normally make it a practice not to even review such "limited function release" software. This is a practice shared by a number of distinguished Shareware Librarians such as Nelson Ford of the **Public (software) Library** in Houston. In any event, you may find **INSTANT** quite useful once you delve beyond the documentation and learn the user interface. A great idea, rather poorly done. Precept, 3790 El Camino Real, Suite 173, Palo Alto, CA 94306; (415) 598-2481

FIDOMAIL

The use of electronic mail as a means of communication has been mostly a novelty up to this point. Some businesses have successfully used commercial **E-MAIL** services as a company internal messaging system. But recent developments have increased the "universal" nature of **E-MAIL** addressing and **E-MAIL** should become progressively more useful in the future.

A little used service is available locally for a fraction of the cost of commercial services. You may have noticed local Fido boards with **NET** and **NODE** numbers such as **104/43**. This number indicates that the board exchanges mail with the International Fido Net Association (IFNA) which sports over 1700 member boards worldwide. These boards are arranged into local networks or **NETS** such as **104**, serving the Denver area, and **128**, located in Colorado Springs. Each BBS within the local **NET** is assigned a **NODE** number by the area coordinator. The **104/43** numeric indicates **NODE 43** of local **NET 104**. Oscar Barlow of **104/56** is the local area coordinator for **NET 104** here in Denver.

Fidonet Boards allow users a fairly unique service. For a small fee, usually about \$0.25 per message, you can address an **E-MAIL** message to a user on any of the 1700+ boards nationwide. All you need is the **NET** and **NODE** number of the target board and the users name. The message will appear on the target board early the next morning. This works quite differently from large commercial services and it is quite interesting to examine. Each morning in the wee hours each Fidonet board assembles outgoing mail in packets. It then dials up each destination board in turn, uploads the message packet, and disconnects. All over the country, literally thousands of BBS are dialing each other up, uploading text files, and disconnecting in an awesomely intricate dance based on the **NODELIST** of all **NETS** and **NODES** and their

telephone numbers published electronically by the IFNA each Friday. The next time the addressed user logs on to that **NET/NODE BBS**, your message will be waiting.

There are a couple of disadvantages, though they are largely shared by the commercial services. For one thing, the message will not be read until the user you've addressed actually logs onto the **NET/NODE** you sent the message to. You also must already know what **NET/NODE** your addressee logs onto regularly. Unlike commercial services, messages are not instantly delivered. They arrive during national mail hours. And the confidentiality of messages is entirely dependent on system operators of the origin and destination boards. With all this, the system works amazingly well.

Oddly, Fidomail is probably one of the least used features of local Fidonet Boards. This is probably due to the logistics of handling the required fees. To effectively use Fidomail, you need to establish an ongoing relationship with a particular local Fidonet board. For one thing, you need to have a "home board" where other users can reach you via Fidomail if you are going to use it at all. Often the sysop will let you send a message or two at no charge since the cost is realistically in the range of \$0.13 to \$0.25 per message anywhere in the country. For a single message, it's not always worth collecting at that rate. Even so, most sysops, at least until they come into a large inheritance, can ill afford to finance your communications. There is a simple solution for this. Send the sysop a check for a couple of dollars. Almost all systems allow the sysop to set up an automatically tracked "line of credit". You can send six or eight messages anywhere in the country for two bucks and the BBS computer will keep track of your "credits". The costs of using a message system like this are miniscule compared to commercial services and you simply send another check when your "account" runs a bit low. As with any system, you will learn to use it effectively by using it often. It can be very effective for keeping in touch with friends in a town you lived in previously or where professional contacts live across country.

The future is even more exciting. Several experiments are currently in progress linking the Fido Network to national commercial **E-MAIL** services. We expect that very soon, you will be able to address **E-MAIL** to services such as **MCI Mail**, **The Source**, and **Easylink** from your local Fidonet BBS. More on that in future issues.

EDITOR'S NOTES

Denver PC Boardwatch presents its eighth issue this month. Our new format from the September issue was so well received we've further upgraded our type quality this month. We note a big jump in BBS ser-

- Denver PC Boardwatch -

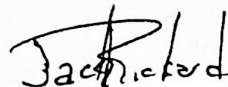
vices from 213 in September to 223 available locally in October. Local BBS activity has never been higher with new boards coming on line daily. The release of Shareware Software products has reached a scale we can only describe as a flood.

We continue to find more and better BBS operated by local governments to serve the taxpayer. The Colorado Department of Highways RABBIT BBS is another excellent example of this growing phenomenon. They provide some excellent information on current highway construction/renovation projects.

We've heard from Mr. Russell Briggs of DASnet concerning continuing efforts to bridge between various E-MAIL services. Recall from earlier issues that DASnet connects up to 18 different commercial E-MAIL services allowing users of one service to address mail to subscribers of other services. Mr. Briggs notes that COMPUSEVE and GENIE have decided his service is a "reselling" of their service and they do not allow their subscribers access to DASnet. We find this a shockingly shortsighted and narrow view of the world of electronic mail. We urge these two services to reconsider their positions for the benefit of their subscribers. We participated in some recent experiments with DASnet in passing messages from the local Denver Fidonet to DASnet via a California Fido board that acts as a portal to the Unix message network UUCP (one of the message systems supported by DASnet). What does this mean? In the very near future, you will be able to enter a message on your local Fido BBS addressed to someone on MCI mail or any of the other commercial E-MAIL services. Likewise, users of Dialcom, Peacenet, BITNET, Easylink, etc. will be able to address messages care of any of the 1700+ Fido nodes. The impact of this development may not be immediately obvious. Yet it is part of an emerging trend. More mail nets are coming into existence every day. We recently learned GT POWERCOMM is about to initiate its own net. At the same time, communications between nets is improving via services such as DASnet. And further, commercial companies are releasing a flood of products to connect local area nets (LANS) to commercial services. The exciting end product of all this activity will be that every desktop computer in every office and home in the land will be able to address EMAIL to any other and have it delivered at relatively low cost within a few hours. Not just to those subscribing to the same monolithic service, but to ANY desktop unit via one avenue or another - an enormously exciting prospect.

We also note that numerous subscribers have asked if there is a Denver PC Boardwatch BBS. At present there is not. We are exploring the possibilities in this area. In the meantime, Mr. Steve Carnes of THIS END UP FIDO 104/30 at (303)430-1585 has agreed to support our efforts. You may leave comments con-

cerning Denver PC Boardwatch, suggestions, list corrections, or announcements of new BBS on Mr. Carnes board. Additionally Todd Hill of TERUS FIDO 104/43 at (303)469-7161 has also agreed to pass messages along to us. Please address all messages to MARION RICKARD



Jack Rickard ---Editor

THE LIST

This month, Denver PC Boardwatch presents 223 electronic bulletin board systems/on-line services for your consideration and use. All are available within area code 303 and the majority are a local call from the city of Denver. A total of 20 boards were unaccounted for from September's list and as a result were deleted. Additionally, we located 30 new or hitherto undiscovered systems in the past month for a net gain of 10 boards. This represents approximately 10% turnover coupled with a 5% growth from last month - a dynamic if not volatile community. As always, each and every system listed here was verified/confirmed by actual telephone contact to ensure the accuracy and timeliness of this list. If you note changes or additions that need to be made, please call (303)973-6038 or drop us a card to the address listed on the back page.

The Comm-Post

300/1200/2400
24 Hours - 7 Days
(303) - 534-4646

SIGs:
Astronomy
TI-PC
Tandy 1000
Tandy 2000



Sysops:
Brian P. Bartee
Roy M. Bartee II

DENVER PC BOARDWATCH

CONFIRMED LIST OF ELECTRONIC BULLETIN BOARDS AND ON-LINE SERVICES - OCTOBER 1987

| TITLE | TELEPHONE | BPS | HOURS | DESCRIPTION | TYPE |
|--------------------------------|------------|---------|-------|--|-----------|
| Aces High | 329-6579 | 3/12 | 24 | Programming/General Messages | Franklin |
| Aerie, The Fido 104/40 | 623-7865 | 3/12 | 24 | Leisure/EchoMail/Discussions | Epson |
| Albuquerque Starport | 494-7224 | 3/12 | 24 | Commodore 64 Downloads | C-64 |
| Alpha BBS / Intercomex | 367-1935 | 3/12/24 | 24 | Tandy/Ham Radio/Space Topics | TRS |
| AmNet On-line | 1-223-1297 | 3/12 | 24 | Animal Rights Issues | IBM |
| Apparat Inc. | 790-7947 | 3/12/24 | 24 | Englewood Computer Store Fido board | IBM |
| Apple Pi A La Modem | 427-7114 | 3/12 | 24 | Apple User Group Messages/Downloads | Apple |
| APSNet | 693-6737 | 3/12/24 | 24 | Aurora Public Schools Network | Apple |
| Aurora Multi-System | 745-3414 | 3/12 | 24 | Amiga/Atari/IBM | Amiga |
| Aurora Net | 680-9292 | 3/12/24 | 24 | Protree Prime/Elite Support Board | Apple |
| Back Door BBS, The | 690-0194 | 3/12/24 | 24 | Games | Apple |
| Baha'i Board | 449-3306 | 3/12/24 | 24 | Religious/Philosophy/Baha'i Faith | IBM |
| Bit Bucket, The | 790-7024 | 3/12 | 24 | Uses Wildcat BBS Software | IBM |
| Blue Bear Group | 825-1324 | 3-96 | 24 | National Electronic Mail System | Northstar |
| Blue Planet | 979-7299 | 3 | 24 | Space Wars Game | Tandy2000 |
| Boat-Net II | 1-879-3275 | 3/12/24 | 24 | Version of GBBS Software for IBM | IBM |
| Boulder Fido 104/77 | 497-6968 | 3/12/24 | 24 | Messages and Downloads | IBM |
| Boulder MAC Maniacs | 530-9544 | 3/12 | 24 | Apple Macintosh Messages and Files | MAC |
| Box's Cabin, The | 424-9185 | 3/12 | 24 | Apple / Technical Notes | Apple |
| Buck Board, The | 425-9283 | 3/12 | 24 | Veterans messages, TRS-80, Amiga | TRS |
| Bud's BBS | 761-6807 | 3/12 | 24 | Atari - 3.123 Megs - News items | Atari |
| C.A.C.H.E | 745-4960 | 3/12/24 | 24 | CO Apple & Compatible Home Enthusiasts | Apple |
| C.A.R.L. Boulder/Broomfield | 444-2057 | 3/12 | 24 | Library Research | Tandem |
| C.A.R.L. Colorado Springs | 1-632-2194 | 3/12 | 24 | Penrose Library | ?? |
| C.A.R.L. Denver | 830-1165 | 3 | 24 | Colorado Association Research Libraries | Mainframe |
| C.A.R.L. Denver | 830-0519 | 24 | 24 | Colorado Association Research Libraries | Mainframe |
| C.A.R.L. Denver | 830-1548 | 3/12 | 24 | Colorado Association Research Libraries | Mainframe |
| C.A.R.L. Denver | 830-1546 | 3/12 | 24 | Colorado Association Research Libraries | Mainframe |
| C.A.R.L. Denver | 830-1547 | 3/12 | 24 | Colorado Association Research Libraries | Mainframe |
| Cable Net Opus | 987-9168 | 3/12 | 24 | IBM Messages/Downloads | IBM |
| California Cooler | 1-687-9620 | 300 | 24 | INFO NEEDED | ?? |
| Career Connection/DRUG | 671-0801 | 3 to 96 | 7P-7A | Job List/Resume/Denver Rainbow Users Grp | DEC100 |
| Castle Darkhorn | 220-1588 | 3/12 | 24 | Role-Playing Games | ?? |
| Catspaw SNOBOL4/ICON 15/22 | 1-539-4830 | 3/12/24 | 24 | SNOBOL/ICON Programming Languages | IBM |
| CBA Information System | 329-0159 | 3/12 | 24 | Continental Basketball Association | IBM |
| Chariot Communications | 1-632-4111 | 3/12 | 24 | Subscriber Only - Unix - NAPLPS Graphics | IBM |
| Cherry Hills Village Post BBS | 762-1981 | 3/12 | 24 | Cherry Hills Village Elementary School | Apple |
| Christian Protocol | 745-1504 | 3/12/24 | 24 | Christian Messages - Bible Text | Epson |
| Club House, The | 756-9134 | 3/12 | 24 | RP Games - Golf Format - Messages | Apple |
| Club Micro Max Fido 104/88 | 832-5850 | 3/12 | 24 | *C*Language/Database/Communication Files | IBM |
| Coco County Airport | 343-6707 | 3/12 | 24 | TRS Color Computer Support | CoCo |
| Code 5150 | 696-6673 | 3/12/24 | 24 | Lunatic Discussions / Crazy People | Apple |
| Colorado Broadcasters 104/42 | 572-6256 | 3/12 | 24 | Commercial Radio Frequency Lists | IBM |
| Colorado Commodore Club BBS | 452-0544 | 3/12 | 24 | Commodore Computer Info | C-64 |
| Colorado FireNet Fido 128/16 | 1-591-7415 | 3/12 | 24 | Colorado Springs Fire Safety | IBM |
| Colorado TravelBank | 671-7669 | 3/12/24 | 24 | Colorado Travel, Recreation, Ski Info | IBM |
| Colorado University | 447-2540 | 3/12 | 24 | University Mainframes (Require Access) | Mainframe |
| Comm-Net Information Service | 366-7177 | 3/12 | 24 | * C-64/C-128/Amiga Info-Dnlds-Messages * | C-64 |
| Comm-Net Information Service | 340-2473 | 3/12 | 24 | * C-64/C-128/Amiga Info-Dnlds-Messages * | C-64 |
| Comm-Post, The | 534-4646 | 3/12/24 | 24 | Astronomy, TI-PC, Tandy 1000/2000, Jokes | IBM |
| Commstar Enterprise | 1-597-8670 | 3/12 | 24 | Commodore 64 with Tesseract Drive | C-64 |
| Communication Companion 128/12 | 1-685-4333 | 3/12 | 24 | Manitou Springs - Recipes - Writers SIG | IBM |
| Comp-U-Rado Node 1 | 1-593-1072 | 3/12/24 | 24 | MS-DOS/CP/M | ?? |
| Comp-U-Rado Node 2 | 1-591-9448 | 3/12/24 | 24 | MS-DOS/CP/M | ?? |
| Computer Farm | 1-632-0669 | 3/12/24 | 24 | FCC Echo IBM Hardware/Software Sales | IBM |
| Computer Know How | 279-0224 | 3/12 | 24 | Hard Disk Installation / Tech Support | CP/M |
| Computer Repeats Inc. | 939-8174 | 3/12 | 24 | Used Atari Equipment Sales | Atari |
| Computerland of North Denver | 420-0126 | 3/12 | 24 | Computerland Support | IBM |
| Computers Unlimited | 762-9122 | 3/12 | 24 | Sanyo MBC-55X Support | IBM |
| Control Headquarters | 1-472-0902 | 3 | 24 | INFO NEEDED | ?? |
| Control Point Fido 104/711 | 526-9642 | 3/12/24 | 24 | *Excellent* PC Software Download Files | IBM |
| Control Systems | 458-6248 | 12/24 | 24 | IBM/Compatibles Subscription Board | IBM |
| Controller Board/TBBS Island | 690-9423 | 3/12 | 24 | Computer Supplies - Online Sales | TRS |
| Council of Whitestone | 699-0326 | 3/12 | 24 | Dungeons & Dragons Role Games - Jokes | IBM |
| CP/M SIG INC Fido 104/372 | 465-1313 | 3/12 | 24 | Oldest User's Group in Area - CP/M - IBM | IBM |
| CPU Board | 1-772-7229 | 3/12/24 | 24 | Downloads and Useful BBS Info Since '83 | TRS |
| Crossroads | 499-0457 | 3/12 | 24 | Discussion | TRS |
| Crossroads | 989-8397 | 3/12 | 24 | Discussion | TRS |
| CS BBS Service I | 1-531-6668 | 3/12/24 | 24 | Subscriber Access Fido 128/11 Zenith | IBM |
| Custom HUB | 1-598-4500 | 3/12/24 | 24 | Colorado Springs | IBM |
| Day's End Fido 104/20 | 650-5636 | 3/12/24 | 24 | Downloads - Messages - Astronomy | IBM |
| DBSYSTEM | 893-5717 | 3/12 | 24 | New BBS Software-Commercial Radio Survey | IBM |
| Death Star, The | 781-6863 | 3/12 | 8P-6A | Fun Posting | C-64 |
| DEKBBS | 1-635-3732 | 3/12 | 24 | CP/M Files - Computer Auction | ?? |
| Dementia | 989-8470 | 3/12 | 24 | American MENSA Denver Chapter | Apple |

DENVER PC BOARDWATCH

CONFIRMED LIST OF ELECTRONIC BULLETIN BOARDS AND ON-LINE SERVICES - OCTOBER 1987

| TITLE | TELEPHONE | BPS | HOURS | DESCRIPTION | TYPE |
|--------------------------------|------------|---------|---------|---|-----------|
| Den HUG | 331-0982 | 3/12 | 24 | Denver Heath/Zenith User Group | Heath |
| Denver Deaf-Net | 989-9245 | 3/12 | 24 | Hearing Impaired/Computing | Apple |
| Denver Metroplex Fido 104/69 | 455-3283 | 3/12/24 | 24 | Autocad/Computer/Sexual Boards | Kaypro |
| Denver Tech Center | 799-4813 | 3 to 96 | 24 | Megafiles of Downloads / On-line Chess | IBM |
| Dialamatch 118/The Brokerage | 796-9721 | 3/12 | 24 | Adult Matchmaking | Franklin |
| Dilligaf | 1-593-2232 | 3 | 24 | D)oes I)t L)ook L)ike I) G)ive A) F)... | ?? |
| Dinosaur Board | 1-652-3595 | 3/12 | 24 | Outdated Computer Support/Zork I On-Line | TRS |
| Discovery, The | 388-5437 | 3/12 | 24 | Music / General Messages | Apple |
| DJ | 789-0500 | 3-96 | 24 | Galactic Conquest Game On-line 40 MB | Apple |
| Dragon's Shadow | 841-3721 | 3 | 24 | Fantasy / Games - Unique Logon Screen | C-64 |
| Eagle's Nest | 933-0701 | 3/12 | 7P-10P | Minihost Board | IBM |
| Eagles Nest Fido 128/18 | 1-598-8413 | 3/12 | 24 | Eagleview Middle School | IBM |
| Education 2000 Fido 104/29 | 449-9807 | 3/12 | 24 | Education Issues Kindergarten - 12th | IBM |
| Electronic Locksmith 128/22 | 1-392-2906 | 3/12 | 24 | Rick's Locksmith Service - Security CO | IBM |
| Elkridge West | 1-488-2671 | 3/12/24 | 24 | INFO NEEDED | ?? |
| Enchanted Castle | 1-769-1880 | | | INFO NEEDED | ?? |
| Enterprise | 860-1323 | 3/12 | 24 | Commodore Board with 3.6 MB Software | C-64 |
| Epoch 2000 | 1-531-6172 | 3/12/24 | 24 | Astronomy Dedicated - Viewing Conditions | ?? |
| ETA Denver Fido 104/32 | 750-5042 | 3/12 | 24 | ANSI, Messages, Weather Forecast, Dnlds | Tandy |
| Eusebeia Fido 104/18 | 430-8376 | 3/12/24 | 24 | Christian - Full KJV Bible Downloads | IBM |
| Excalibur Fido 104/39 | 497-6673 | 3/12/24 | 5PM-8AM | C Program Files - C Echo Area | IBM |
| Excelcier | 697-1244 | 3/12 | 24 | Apple/Commodore Message Areas | Apple |
| Experience Software | 798-0792 | 3 | 24 | Franklin Messages | Franklin |
| Fantasy Mountain PBBS | 278-8369 | 3/12/24 | 24 | Deaf and Handicapped Issues | CP/M |
| FAWG MASES | 1-633-9277 | 3/12 | 24 | Fantasy and War Games | IBM |
| Fido NBS 104/607 | 497-3934 | 3/12/24 | 24 | National Bureau Standards - Jobs SIG | IBM |
| Four Wheeling BBS, The | 469-4954 | 3/12 | 24 | Jeeping / Camping / Outdoors | Atari |
| Galafrea | 987-0161 | 3/12 | 24 | Doctor WHO - Commodore 64 Downloads | C-64 |
| GateKeeper, The | 755-4210 | 3/12 | 24 | Gateway High School | Apple |
| Gay Community Fido 104/19 | 795-1215 | 3/12 | 24 | Messages / Downloads for Homosexuals | IBM |
| Genesis Project | 287-8267 | 3/12/24 | 24 | Apple II General | Apple |
| GLOBAL Information | 286-7914 | 3/12 | 24 | Fee Subscription / Software Database | VAX |
| Greater Clifton PCBoard | 1-241-1966 | 3/12 | 24 | Grand Junction MUG - Ham/Packet Radio | IBM |
| Greeley-Com-Net | 1-351-8861 | 3/12/24 | 24 | Modem Users Board | Apple |
| Greenline | 469-2053 | 3/12 | 24 | Amiga Messages and Downloads | Amiga |
| Greeter Hub | 1-473-3837 | 3/12/24 | 24 | Colorado Springs HUB BBS Software Board | IBM |
| Grotto, The | 694-9050 | 3/12/24 | 24 | Amiga, Pascal | IBM |
| Hack Shack | 688-8406 | 3/12 | 24 | Commodore | C-64 |
| HIP Shack 128/19 | 1-593-0766 | 3/12/24 | 24 | Amateur Radio - Packet - Short Wave | IBM |
| Hollows, The | 428-0372 | 3/12 | 24 | Smoke Signal Software/PRIME BBS Support | Apple |
| HP-BBS Fido 104/34 | 1-229-9719 | 3/12 | 24 | Jokes, Amazing but True stories, | HP-Vectra |
| In To The Night Fido 104/31 | 659-1897 | 3/12 | 9P-3A | General Fido Messages / IBM Game Files | IBM |
| Interface | 1-390-3217 | 3 | 24 | Subscriber Areas - Online Hardware Order | ?? |
| Investment Lounge | 759-3721 | 3/12 | 24 | Excellent Investment/Financial Topics | IBM |
| Investors BBS Service | 1-481-4525 | 3/12 | 24 | Stocks and Investments | IBM |
| Isle of Man | 447-1942 | 3/12 | 24 | Gay Community BBS | IBM |
| King's Market Bookshop | 665-6091 | 3/12 | 24 | Books, Writers, Timex SIG, Zork | TRS |
| Kings Bench Fido 104/615 | 377-6725 | 3/12/24 | 24 | Tandy 1000 ONLY/\$2 Registration/Messages | Primary |
| L&L Support | 420-3568 | 3/12/24 | 24 | GBBS Pro Software Support BBS | Apple |
| Lakewood Department of Safety | 987-7388 | 3/12 | 24 | Police Sponsored - Law Enforcement Msgs | IBM |
| Lakewood RCMP/RBBS | 985-1108 | 3/12 | 24 | CP/M MS DOS Downloads | CP/M |
| Land of London | 987-2094 | 3/12 | 24 | Fantasy Runequest Games | Apple |
| LES-COM-NET | 233-5824 | 3/12 | 24 | Lesley College Communications Network | Apple |
| Libyan Embassy | 688-1127 | 3/12 | 24 | Atari Games | Atari |
| Magic | 791-8732 | 3/12 | 24 | Macintosh / Apple GS Software & Support | MAC |
| Manville Information Services | 978-3946 | 3/12 | 24 | Business Software / Apple Macintosh | IBM |
| MED - Link Fido 104/444 | 443-4353 | 3/12 | 24 | Medical Info / TI 99/4A / MS-DOS | IBM |
| Metro Data Exchange | 830-2445 | 3 | 24 | Commodore 64 - Grateful Dead Schedule | C-64 |
| Micro World Infomat | 987-2671 | 3/12/24 | 6P-9A | RBBS - IBM - Commodore - Amiga - Atari | IBM |
| Microlink B Fido 104/108 | 972-4181 | 3/12/24 | 24 | Excellent IBM Software Download Library | IBM |
| Mile Hi Tech Fidonet 104/56 | 973-9338 | 3/12/24 | 24 | Fido Area Coordinator - Fido News/List | IBM |
| Mile High Epson User Group BBS | 752-2943 | 3/12/24 | 24 | MHEUG Club Board | EPSON |
| Mile High Forem | 431-1404 | 3-96 | 24 | Outstanding Atari ST Database - HST 9600 | Atari |
| Mile High Mac Meet | 758-9159 | 3 to 96 | 24 | Denver Macintosh Users Group | MAC |
| Mile High Net | 671-7308 | 3/12/24 | 24 | Fido Board | IBM |
| Minds of Mines (MOM) BBS | 273-3989 | 3/12/24 | 24 | CSM Artificial Intelligence/Geotechnical | TI |
| Modem Net 104/47 | 680-8153 | 3/12/24 | 24 | Multiline - INFOMAT - Online Mail Order | IBM |
| Motherboard | 1-241-1419 | 3/12 | 24 | Grand Junction - Artistic Screens | IBM |
| Mountain Amiga Enthusiasts | 1-564-0618 | 3/12 | 24 | Pueblo Amiga Computer BBS | Amiga |
| Mountain Shadows Software | 1-598-0111 | 3/12 | 24 | Computer Solutions-MAC/Apple II - 20 MB | MAC |
| Musician's Den Fido 104/17 | 321-6857 | 3/12 | 7P-9A | Music Interests - MIDI Technical | IBM |
| Mycroft | 777-8898 | 3/12 | 24 | Horizon Computer/National Atari BBS List | Atari |
| Necromancer | 1-550-9893 | 3/12 | 24 | INFO NEEDED - Board Seems DEAD | ?? |
| Networks Unlimited | 296-3210 | 3/12/24 | 24 | Messages/Downloads/Polls | IBM |
| O.P.U.S. RBBS of Pueblo | 1-544-3704 | 3/12 | 24 | Radio Announcers/Broadcast Pros/ 80 MB | IBM |

DENVER PC BOARDWATCH

CONFIRMED LIST OF ELECTRONIC BULLETIN BOARDS AND ON-LINE SERVICES - OCTOBER 1987

| TITLE | TELEPHONE | BPS | HOURS | DESCRIPTION | TYPE |
|--------------------------------|------------|----------|---------|--|-------|
| Odyssey III | 691-0169 | 3/12 | 5P-8A | Adult(18) / Sex Oriented - Members Only | Apple |
| Old Colorado City Elec Cottage | 1-632-3391 | 3/12 | 24 | Rodgers Bar - Politics - NAPLPS Graphics | IBM |
| On-Line Consulting Fido 104/45 | 449-5251 | 3/12/24 | 6PM-8AM | Consultant Directory/Desktop Publishing | IBM |
| Optotech Inc | 1-570-7973 | 12 | 24 | 400 Meg Optical Disk Drive Manufacturer | IBM |
| P*P CompAS | 1-591-1453 | 3/12 | 24 | Pikes Peak Computer Applications Society | IBM |
| PACE | 428-3696 | 3/12 | 24 | Practical Apologetics/Christian Evangel. | ?? |
| PC Computer Brokers | 452-9567 | 3/12 | 24 | IBM, Epson Equity, TRS-80 Club Msgs | IBM |
| PCjr Net Fido 104/904 | 789-4610 | 3/12/24 | 24 | IBM PC Jr. Technical Information / Files | IBM |
| PCR HUB | 1-635-8808 | 3/12 | 24 | Online Novel - Not Bad! | IBM |
| Phoenix TBBS Fido 104/739 | 841-9570 | 3/12/24 | 24 | 4 Lines - Online Chat/CB, INFO-MAT Magaz | IBM |
| Phone Connection | 426-7969 | 3/12 | nights | Commodore | C-64 |
| Photo Tech | 781-1079 | 3/12 | 24 | TRS 80 / HAM / Video / Camera | TRS |
| Pinecliffe Fido 104/28 | 444-7073 | 3/12/24 | 24 | 125 Meg - Online Order for CDB Systems | IBM |
| Playhouse | 286-7399 | 3/12 | 24 | Adult / Jokes / Sexual Themes | Apple |
| Portal, The | 421-4729 | 3/12 | 24 | New Age - Metaphysics - Healers/Spirit | IBM |
| Predacon | 988-6886 | 3/12 | 24 | Atari 8 bit / ST with 10 MB | Atari |
| Pro-Cyber Perimeters | 721-6667 | 3/12 | 24 | Online Games - Trivia Quiz | Atari |
| Professional System, The | 740-2223 | 3/12 | 24 | Writers, Lawyers, EDP Auditors | IBM |
| Prom Blaster | 422-3759 | 3 | 24 | Apple Conversation | Apple |
| Property Owners Marketing Sys. | 973-0100 | 3/12 | 24 | Subscription Real Estate Service | IBM |
| PSINet | 985-2634 | 3/12 | 24 | Parapsychology / Near Death Experiences | TRS |
| Publishing Resources Inc. | 442-2011 | 3/12 | 24 | Laser Printing/Publishing/Linotronic | MAC |
| QBBS Central Fido 104/24 | 423-3114 | 12 | 24 | QBBS BBS Software Beta Test | IBM |
| R.A.B.I.T. | 757-9509 | 3/12 | 24 | Colorado Highway Department - Planning | IBM |
| Reggae Land | 690-8144 | 3 | 10P-6A | Commodore | C-64 |
| Revelstone | 722-5806 | 3/12 | 5P-2A | INFO NEEDED | ?? |
| Roach Motel | 697-1225 | 3 | 7E2 | Commodore | C-128 |
| Rocky Mountain 99ers | 288-3692 | 3/12/7E2 | 24 | Club Board - Texas Instruments 99/4A | TI99 |
| Rocky Mountain RBBS | 750-2107 | 3/12 | ?? | INFO NEEDED | ?? |
| Ron and Shannons AMIS | 978-0298 | 3/12 | 24 | Atari Support 5.4 MB | Atari |
| Running Board | 252-4051 | 3/12 | 24 | Transportation / Atari | Atari |
| Sanitarium | 750-0563 | 3/12 | ?? | Commodore | ?? |
| Secure-Net | 757-6096 | 3/12 | 24 | US Alarms Inc. Crime Prevention - Safety | IBM |
| Shaman Exchange | 969-8585 | 3/12 | ?? | Multi-line System | Apple |
| Shamus ST | 1-591-8673 | 3/12 | 24 | INFO NEEDED | ?? |
| Sheridan & Associates | 935-1489 | 3/12 | 24 | Buy / Sell / Trade - Chess History | Apple |
| Short Line Fido 104/36 | 969-9510 | 3/12 | 24 | Movie, Video, Music Reviews / Ranking | IBM |
| Skyline Computers | 457-0320 | 3/12 | 24 | Atari Messages | Atari |
| Sleeze Zone Fidonet 104/48 | 444-7686 | 3/12/24 | 6P-8A | Beaty Distribution Services Inc. | IBM |
| Smart-Net | 1-578-9406 | 3/12 | 24 | Dungeons & Dragons Games | IBM |
| Softronic | 1-593-9530 | 3/12/24 | 24 | Private Software Support | ?? |
| Solid Software Fido 128/15 | 1-591-4273 | 3/12/24 | 24 | Zenith 50 MB | IBM |
| Sort Support | 699-8222 | 3/12 | 24 | eSoft Inc. TBBS Software Support | IBM |
| Space Environment Service Cntr | 497-5000 | 3/12 | 24 | NOAA Solar Flare Forecast/Advisory | ?? |
| Space Network | 494-8446 | 3/12/24 | 24 | Space Exploration Information | IBM |
| Spam Mania | 423-0348 | 3/12 | ?? | INFO NEEDED | ?? |
| Springs Net | 1-634-6077 | 3/12 | 7P-11P | INFO NEEDED | ?? |
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